tech.mit.edu

Volume 133, Number 49



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TUE: 49°F | 35°F

WED: 51°F | 40°F Cloudy

THU: 58°F | 55°F Cloudy

Tuesday, October 29, 2013

Grimson to lead future fundraising

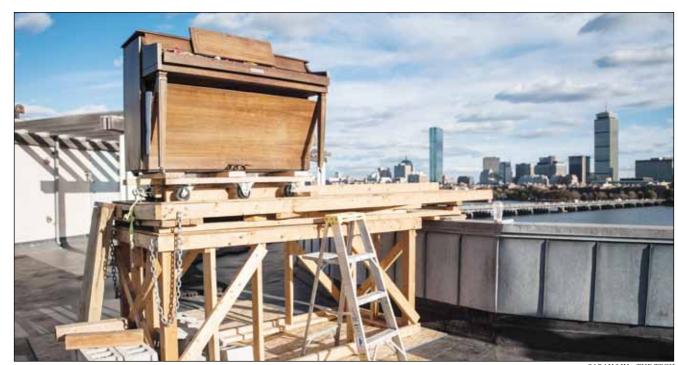
Discusses new position

By Omar Ibarra

After more than two and a half years serving as Chancellor of MIT, Eric Grimson PhD '80 will step down to fill the new role of Chancellor of Academic Advancement. President L. Rafael Reif outlined the position as the head of a new fundraising campaign in the Oct. 22 announcement.

According to MIT's press release, the new role will require "making the case for MIT's fundraising priorities with alumni and donors around the world" as part of a large upcoming campaign to raise capital for the Institute. In an interview with The Tech, Grimson said, "The idea of this position is to have a senior academic very much engaged and helping to refine and coordinate these student and

Grimson, Page 8



A piano stuffed with candy sits on the roof of Baker House in preparation for the annual Baker House Piano Drop that occurred this past Friday, Oct. 25. Parents and students crowded the courtyard to watch the piano drop six stories and shatter on top of another piano.

NEWS BRIEFS

Election Day is next Tuesday

Voters will choose next Tuesday, Nov. 5, the next mayor of Boston, who will either be Marty Walsh or John R. Connolly. Incumbent Mayor Thomas Menino is not running for reelection.

In Cambridge, 25 candidates, including 2 MIT alumni, are vying for the 9 seats on the Cambridge City Council. Incumbent Mayor Henrietta Davis is not running for reelection. The elected council will choose one among them to be the next mayor of Cambridge. See page 9 for the list of candidates.

The candidates' positions on such issues as city development, housing, sustainability, and town-and-gown relationships can be found in The Cambridge Chronicle, The Cambridge Day, The Harvard Crimson, and the Cambridge Civic Journal.

Fraternity brothers suspected in N.H. vandalism

A statue dedicated to two fallen police officers was toppled and signs were written over with obscenities over Columbus Day weekend, during which about 20 MIT students were staying at a New Hampshire campground over Columbus Day weekend, a local police chief told Fox Boston.

Three people, intoxicated and underage, were taken into custody, according to Wayne Preve, police chief of Epsom, N.H., a town of 5,000. Fox Boston reported that it was unclear whether the three were MIT students.

Briefs, Page 9

Undergraduate alumni survey results released

The Office of the Provost recently released the results of the 2013 Undergraduate Alumni survey on its website. The office administers the survey periodically to gather information about undergraduate alumni who have been out of college for at least five years. Previous surveys occurred in 2005 and 2009.

In an email to alumni, Chancellor Eric Grimson PhD '80 said the survey results "help us improve our academic and student programs." The survey also plays a role in the School of Engineering's accreditation process, according to an email from Dean of Engineering Ian A. Waitz to engineering alumni.

About six thousand alumni from six different graduating classes from 1984 to 2008 were asked to participate in the 2013 survey. Thirty-six percent of those contacted responded to the survey. It measured students in three categories: those who have been out of college for five to nine years, ten to nineteen years, and twenty years or more.

According to the results report, the survey revealed that about 75 percent of alumni have enrolled in a graduate or pro-

Survey, Page 9

HENRY TAREQUE—THE TECH

From left to right, Emma L. Frank '15, Henry A. Fingerhut G, and Tasha L. Schoenstein '16 perform before a packed audience in 6-120 during Roadkill Buffet's improv comedy show on Friday, Oct. 25.

Troubled launch for site

Healthcare.gov puts Tavenner in hot seat

By Sheryl Gay Stolberg

THE NEW YORK TIMES

WASHINGTON - Ten days before HealthCare.gov opened for business, Marilyn Tavenner, the relatively obscure federal bureaucrat whose agency oversaw the creation of the troubled online insurance marketplace, had a bad omen. It was a Sunday, and her mobile device was on the fritz, forcing her to go into the

"It reminded me that I can still be brought to my knees by a malfunctioning BlackBerry," she joked in late September, recounting her technology woes to a group of insurance executives.

Nobody at the Centers for Medicare and Medicaid Services, the agency Tavenner runs, is joking now. On Tuesday, she will be on Capi-

tol Hill to face a grilling from House Republicans over the website's failures. It will be an unusual turnabout for Tavenner, 62, who was confirmed

overwhelmingly by the Senate in May on a bipartisan 91-7 vote and had the enthusiastic backing of the House Republican leader, Rep. Eric Cantor, who knows her from her days as health secretary in his home state, Virginia.

Her testimony, before the House Vays and Means Committee serve as a warm-up for that of her boss, Kathleen Sebelius, the health and human services secretary, who will appear before another House panel on Wednesday. Republicans, who have scheduled a series of hearings to examine the problems with the troubled website, have demanded that someone in the Obama administration be held accountable for the problem-plagued rollout.

"There's a lot of fault to go around when it comes to the launch of the Obamacare exchanges, least of which is trying to figure out who was in charge," said Sen. Orrin Hatch,

Healthcare, Page 11

IN SHORT

The next 2013 World Series game is on Wednesday, Oct. 30 in Boston.

The Fall 2013 UROP Supervisor/Sponsored Research Funding application deadline is Thursday, Oct. 31, which is also the deadline for Credit/Volunteer UROPs. Submit your proposals at https://sisapp.mit.edu/uropweb/home.

Halloween is this Thursday, Oct. 31!

Prehealth registration closes on Friday, Nov. 1 for applicants seeking fall 2015 entry to medical or health profession school. Applicants must submit the Prehealth Registration Questions and the Prehealth Registration Form.

Daylight Savings Time ends on Sunday, Nov. 3 at 2:00 a.m. Don't forget to turn your clocks back one hour!

The lottery for IAP language classes opens on Monday, Nov. 4 at 9:00 a.m. Study abroad classes have separate lottery dates.

Send news information and tips to news@ tech.mit.edu.

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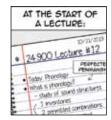
join@the-tech.mit.edu.

CITIES AT YOUR FEET

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STILL GREAT AT INTERVIEWS

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THE DISINTEGRATION **OF LECTURE NOTES**

Q.E.D.: I know what your lecture notes look like, from beginning to end.

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MULTILINGUAL EDUCATION

Educating students in multiple languages had many benefits.

OPINION, p. 4

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Penn State to pay \$59.7 million to 26 Sandusky victims

Penn State has agreed to pay \$59.7 million to 26 sexual abuse victims of former assistant football coach Jerry Sandusky in exchange for an end to their claims against the university, Penn State announced Monday. Of the 26 settlements, 23 are fully signed and three are agreed to in principle, with final documentation expected within the next few weeks.

Rodney A. Erickson, the president of the university, called the settlement "another step forward in the healing process for those hurt by Mr. Sandusky, and another step forward for Penn State."

He added, "We cannot undo what has been done, but we can and must do everything possible to learn from this and ensure it never happens again at Penn State."

University officials emphasized that the settlement money did not come from student tuition, taxpayers or donations, but from liability insurance policies, which the university believes will cover the settlements and defense of claims brought against Penn State and its officers, employees and trustees.

—Joe Drape, The New York Times

In China, hopes of market reforms tempered by realities of politics

HONG KONG — In a political system whose lifeblood is opaque slogans, a detailed proposal for China's economic reform ominously titled Plan 383 has created a hubbub of excitement from investors and the country's news media.

China's leaders are moving toward a major policy-setting conference next month bearing heady expectations that they have encouraged. The proposal from a prominent government research organization has magnified speculation that they will embrace bold pro-market reforms.

The grinding realities of politics, however, are likely to force proponents of such reforms to settle for more modest changes, experts said.

The head of the Chinese Communist Party, Xi Jinping, has repeatedly said a Central Committee conference next month will inaugurate far-reaching economic reforms. Other senior officials have also encouraged ambitious hopes for the third full gathering, or plenum, of the current Central Committee, a body with just more than 200 central and local officials as full members. The government has said the meeting will take place in November.

—Chris Buckley, The New York Times

Apple profit falls despite strong iPhone sales

SAN FRANCISCO — Unlike past years, Apple released two new iPhones in September instead of just one. The company's financial earnings report Monday offered the first hints that the new strategy might result in stronger overall revenue. Apple reported revenue of \$37.5 billion in the latest quarter, up from \$36 billion in the same quarter a year ago.

Still, the two phones did not help lift the company's profit. Apple earned \$7.5 billion, or \$8.26 a diluted share, in the latest quarter, down from \$8.2 billion, or \$8.67 a diluted share, during the same quarter last year.

The company said it sold 33.8 million iPhones, up from 26.9 million in the same quarter last year. Wall Street analysts had expected that Apple would sell 29 million to 38 million new iPhones. The lower profit may be because of slightly lower sales of Macs. The company said it sold 4.6 million Macs, compared with 4.9 million in the same quarter last year.

—Brian X. Chen, The New York Times

Judge blocks major part of Texas abortion law

By Erik Eckholm

THE NEW YORK TIMES

A federal judge in Texas on Monday blocked an important part of the state's restrictive new abortion law, which would have required doctors performing the procedure to have admitting privileges at a nearby hospital.

The decision, one day before the provision was to take effect, prevented a major disruption of the abortion clinics in Texas. It was a victory for abortion rights groups and clinics that said the measure served no medical purpose and could force as many as one-third of the state's 36 abortion clinics to close

But the court did not strike down a second measure, requiring doctors to use a particular drug protocol in nonsurgical, medicationinduced abortions. Doctors have called that protocol outdated and too restrictive.

Judge Lee Yeakel of U.S. District Court in Austin declared that "the act's admitting-privileges provision is without a rational basis and places a substantial obstacle in the path of a woman seeking an abortion of a nonviable fetus."

Gov. Rick Perry, who has said he hopes to make abortion "a thing of the past," signed the legislation in July. It had been temporarily derailed when Wendy Davis, a Democratic state senator, mounted an 11-hour filibuster in the Republican-controlled Legislature. Davis is now running for governor of Texas, with abortion rights as one of her planks.

Texas officials quickly said they would appeal the decision to the 5th U.S. Circuit Court of Appeals, in New Orleans, and Yeakel said that "at the end of the day, these issues are going to be decided definitively not by this court, but by either the circuit or the Supreme Court of the United States."

The ruling was hailed by the chief executive of Whole Woman's Health, a private group that had warned it could be forced to close its clinics in McAllen, Fort Worth and San Antonio because those clinics use visiting doctors who cannot obtain admitting privileges

locally. "We are very relieved," the CEO, Amy Hagstrom Miller, said.

In bringing the suit against two parts of the sweeping anti-abortion law adopted in July, abortion rights groups said these provisions would have "dramatic and draconian" effects on women's access to the procedure. But lawyers for the state argued that these predictions were exaggerated and that the measures served the state's interest in "protecting fetal life."

Perry responded swiftly to the decision Monday, vowing in a statement to appeal. "We will continue fighting to implement the laws passed by the duly elected officials of our state, laws that reflect the will and values of Texans," the statement said.

The lawsuit did not challenge two other central provisions of the Texas law — a requirement that all abortion clinics meet the costly standards of ambulatory surgery centers, which does not take effect until September, and a ban on nearly all abortions starting at 20 weeks after conception, which will take effect Tuesday.

Storm lashes northern Europe, stalling travel in parts of Britain

By Stephen Castle

THE NEW YORK TIMES

LONDON — One of the most powerful storms in Europe in years left at least 13 people dead, hundreds of thousands without power and many stranded Monday when trains, planes and ferries were canceled after high winds battered the northern part of the Continent.

Gusts of 99 mph were recorded in the south of England as the storm brought parts of Britain to a standstill, uprooting trees, overturning a double-decker bus and toppling a crane near the London office of the deputy prime minister, Nick Clegg.

At least 13 storm-related deaths were reported, with most victims crushed by falling trees. Germany had six deaths, Britain had five and the Netherlands and Denmark had one each, The Associated Press reported. One woman was also missing after being swept into the surf

in France

A gas explosion killed two people in London, and a British teenager playing in the storm-driven surf was swept out to sea, The AP reported. A man in Denmark was killed when a brick fell off a building and hit his head.

Many Britons still remember a 1987 storm that brought winds of up to 115 mph after a well-known weatherman, Michael Fish, had ridiculed the idea that a hurricane was on its way. This time Britain's forecasters predicted the storm, but the transportation system is notoriously bad at handling extreme weather, and even mild snow showers can paralyze networks.

On Monday, most train companies in southern England suspended some early morning services, including those connecting Gatwick and Stansted airports to the capital. Some flights were canceled, and the worst-hit airport appeared to be

Heathrow, which canceled around 130 flights.

Power failures crippled many parts of the country. "This was as a result of networks' being broken by objects such as trees, branches or road signs blown by the strong winds," said Tim Field, a spokesman for the Energy Networks Association, the trade body for the operators of infrastructure. Field said around 580,000 customers had their power disrupted at one point during the storm, though by midday the number had dropped to 270,000

At the Dungeness B power station in Kent, nuclear reactors shut down automatically after debris on incoming power lines interrupted energy to the site, EDF Energy said. "The reactors are safely shut down and National Grid staff are now working to restore the supply," said Martin Pearson, station director at Dungeness B.

WEATHER

Chilly fall temperatures continue

By Casey Hilgenbrink

It certainly felt more like fall this past weekend, with daily high temperatures in the mid 50s°F (10s°C) and winds gusting close to 30 mph, thanks to the jet stream over the eastern U.S.

Yesterday evening, a cold front slid past the area, which will keep temperatures cool for the first half of the week. Today, a cold high pressure has been working in from the west, limiting today's high to around 49°F and keeping winds much calmer than we've seen over the last few days. The high pressure will

begin move offshore tomorrow, with a weak cold front trailing Temperatures should be cool again, with a high in the low 50s°F (10s°C), and the possibility for light showers ahead of the front. There is a strong low pressure system forecasted to move from the Great Lakes region into Eastern Ontario/Quebec toward the end of the week. Though temperatures should be mild ahead of this system (expect a high Thursday in the upper 50s°F (10s °C), the associated cold front poses a significant threat of heavier showers Thursday evening into

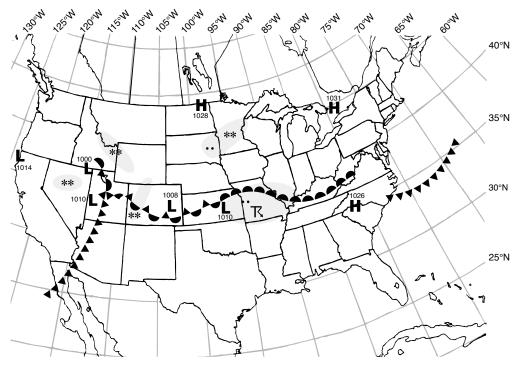
Extended Forecast

Today: Sunny, with a high of 49°F (9°C). Winds from the north around 5 mph.

Tonight: Increasing clouds, with a low of 35°F (2°C). Light to calm winds from the southwest (0–5 mph).

Tomorrow: Cloudy in the morning, with skies becoming more clear by evening. High of 51°F (10°C). Winds changing from to northwest at 5–10 mph. Slight chance of showers.

Thursday: Cloudy, with a chance of showers. High in the upper 50s°F (mid teens °C).



Situation for Noon Eastern Time, Tuesday, October 29, 2013

Weather Systems	Weather Fronts	Precipitation Symbols			Other Symbols		
			Snow	Rain		Fog	
High Pressure	Trough Warm Front	Showers	*	$\dot{\nabla}$	ス	Thunderstorm	
Low Pressure		Light	*	•	$ \infty $	Haze	
c	▲▲▲▲ Cold Front	Moderate	**	••	Com	oiled by MIT	
§ Hurricane	Stationary Front	Heavy	*	•		orology Staff	

Tuesday, October 29, 2013

The Tech 3

Japanese autos lose ground in consumer reliability ratings

By Cheryl Jensen
THE NEW YORK TIMES

After results of Consumer Reports Annual Auto Reliability ratings were released Monday, there appeared to be a crack in the dominance of Japanese brands over automotive reliability. Two of America's most popular cars, the V-6-equipped Honda Accord and the Nissan Altima, no longer have the consumer advocacy publication's coveted "Recommended" rating, according to the report.

The 2014 Subaru Forester was the highest-scoring vehicle overall in predicted reliability. Worst-rated was the Ford C-Max Energi plug-in hybrid. The Dodge Dart 2-liter was the top domestic model. After performing poorly in the Insurance Institute for Highway Safety's new, more stringent small overlap front crash test, the Audi A4, the Toyota Camry, the Toyota RAV4 and the Toyota Prius V were also absent from the list.

The results of Consumer Reports' annual survey, which tries to highlight the most reliable 2014 vehicles by evaluating past years' models, were released in Detroit during a news conference before members of the Automotive Press Association. The report is based on data from 1.1 million 2004-13 model-year vehicles leased or owned by Consumer Reports subscribers. Subscribers were asked whether, in the past year, they had a serious problem with their vehicle that re-

quired a visit to the dealer.

To determine predicted reliability, the publication's staff averages the overall reliability scores for the most recent three model years, assuming that a given model has not changed during that period and was not redesigned for 2013. If it were, Consumer Reports may use one or two years of data to calculate a rating.

At first glance, the slipping reliability stances of Japanese vehicles do not seem significant. After all, seven of the top 10 spots in the brand rankings are still held by Japanese brands, with Lexus in first place, followed by Toyota, Acura, Mazda, Infiniti, Honda and Subaru. That is only one less than last year.

US at odds with Afghans on overtures to Taliban

By Matthew Rosenberg

THE NEW YORK TIMES

KABUL, Afghanistan — A bungled attempt by the Afghan government to cultivate a shadowy alliance with Islamist militants escalated into the latest flashpoint in the troubled relationship between Afghanistan and the United States, according to new accounts by officials from both countries.

The disrupted plan involved Afghan intelligence trying to work with the Pakistan Taliban, allies of al-Qaida, to find a trump card in a regional

power game that is likely to intensify after the U.S. withdrawal next year, officials said. And what started the hard feelings was that the Americans caught them red-handed.

Tipped off to the scheme, U.S. Special Forces raided an Afghan convoy that was ushering a senior Pakistan Taliban militant, Latif Mehsud, to Kabul for secret talks last month, and now have Mehsud in custody.

Publicly, the Afghan government has described Mehsud as an insurgent peace emissary. But, according to Afghan officials, the ultimate plan was to take revenge on the Pakistani military. In the murk of intrigue and paranoia that dominates the relationship between Pakistan and Afghanistan, the Pakistanis have long had the upper hand.

Now, not content to be merely the target of a proxy war, the Afghan government decided to recruit some proxies of its own by seeking to aid to the Pakistan Taliban in its fight against Pakistan's security forces, according to Afghan officials. And they were beginning to make progress over the past year, they say, before the U.S. raid exposed them.

Indian officials say militant group is behind Patna blasts

NEW DELHI — Investigators believe that Indian Mujahedeen, an outlawed Islamic group, was behind a series of explosions Sunday that killed at least six people and disrupted a huge political rally in Patna, a senior official said Monday.

Police said the two suspects they have in custody have said under interrogation that the blasts were planned by Mohammed Tehseen Akhtar, a figure in the banned militant group, according to S.N. Pradhan, a senior police official in the eastern state of Jharkhand who is familiar with the investigation.

Investigators say the four suspects they have identified — the two now in custody, one who died of wounds sustained in the bombings and one who is still at large — came from the same village in Jharkhand, south of Bihar State, where Patna is located.

The seven explosions, in scattered locations, were timed to go off one after another, just as a large crowd was assembling to hear an address by the Hindu nationalist leader Narendra Modi of the Bharatiya Janata Party. Modi hopes to be prime minister if his party prevails in elections next spring.

—Hari Kumar, The New York Times

Opposition party makes gains in Argentine elections

BUENOS AIRES, Argentina — After a decade of family rule in Argentina, the political tenor has begun to change.

Argentines voted in midterm elections Sunday that gave new momentum to the opposition, most significantly in Buenos Aires province, home to more than 15 million people in this nation of 40 million.

Sergio Massa, a municipal mayor who headed the list of candidates for the Renewal Front party, won heavily here with almost 44 percent of the vote, 12 points ahead of President Cristina Fernández de Kirchner's party, the Front for Victory.

Massa, 41, will lead a small bloc of 16 politicians in the lower house of Congress. He is also expected to start building up for a presidential bid in 2015 by gradually fracturing Kirchner's Peronist support structure, though he faces the challenge of sustaining momentum over the next two years.

"Massa has consolidated himself as a key player for 2015," said Carlos Germano, a political analyst. "But the challenge starts now." The constitution blocks Kirchner — who succeeded her husband, Néstor Kirchner, as president in 2007 — from running for a third consecutive term. Some in her party had spoken publicly of an "eternal Cristina." But the Front for Victory was far from obtaining the two-thirds congressional majority it needed to precipitate constitutional changes. At a downtown theater Sunday night, party officials celebrated winning 33 percent of the vote nationwide, more than any other party.

—Jonathan Gilbert, The New York Times





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The benefits of multilingual education

Multilingual education will revitalize local cultures and strengthen the scientific community

By Erika Trent

STAFF WRITER

Language is a bridge between cultures as much as it is a tool for communication. The complex role of language has led to controversy over whether it is better to provide education in a minority language (a language spoken by the minority of a population) or simply educating students in the dominant language of a given region. There is no one-size-fits-all solution to the problem: 20 percent of the population of the United States speak a language at home other than English, 56 percent of Europeans are bilingual, and it is believed that over half of the entire world's population is bilingual.

Given the growing size of the bilingual population, students should receive bilingual education starting in elementary school, in which humanities and social studies are taught in one of the country's minority languages, and math and the sciences are taught in the dominant language. After establishing fluency in both languages, from middle school onwards, students would be taught their classes in the dominant language — in preparation for college admissions or job searches, depending on their intended career — in addition to one literature class continued to be taught in a minority language. This ensures that students are more skilled and maintain a competitive edge when applying to colleges or for jobs, and that students retain their newly acquired command of their minority

Teaching math and sciences in English benefits both students and the global scientific community. It equips students with a universal tool with which to contribute to future scientific research. For example, schools in the Philippines teach Filipino history in Tagalog, but math and science in English. Speaking with international students at MIT reveals that the Philippines is not the only country that adopts this system. Many foreign students attest to the fact that learning technical subjects in English enabled them to be admitted to, and thrive at an institution such as MIT. In an increasingly competitive global economy, allowing foreign students to learn technical subjects in English may even give the U.S. an edge in attracting the best and brightest from a global pool of talent.

Even if one has not grown up in a bilingual environment, it is not too late to reap the potential benefits of a multilingual education while at college.

Furthermore, teaching humanities classes in the minority language would benefit both students and their local communities. Studying their minority language in a cultural context would not only enrich students' cultural identities, but it would also cultivate their social relationships with people of similar cultures. As revealed by a recent linguistic survey on German and Italian education in schools in South Tyrol, friendships between students who are native speakers of different languages encourages students to each others' languages. Furthermore, the linguistic preservation and revitalization that comes with teaching literature or history in a minority language

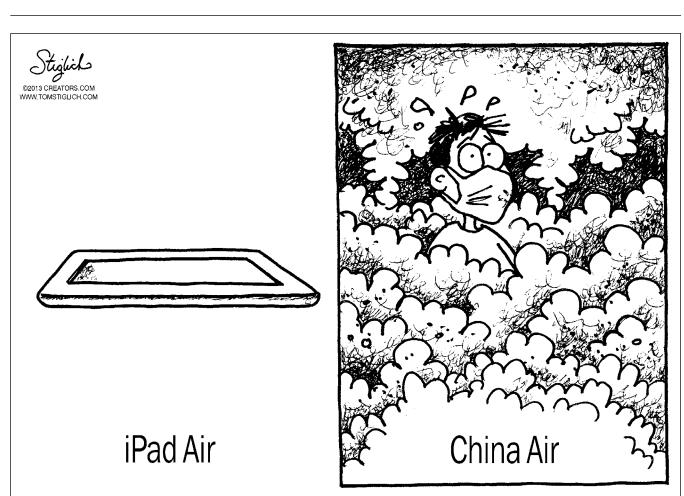
would be valuable to any community. For example, in Hebrew day schools in the United States, the Old Testament is taught in Biblical Hebrew while Israeli history is taught in modern Hebrew. Teaching ethnically relevant subjects in the most appropriate language is more likely to capture the subtleties that may only be aptly expressed in that language.

Even if one has not grown up in a bilingual environment, it is not too late to reap the potential benefits of a multilingual education while at college. Although MIT teaches subjects primarily in English and has no foreign language requirement, students still have opportunities to immerse themselves into a foreign culture through Foreign Languages and Literatures. The FL&L department offers a selection of foreign language classes at a range of levels, as well as culture classes that have quite a popular reputation. In fact, I have handfuls of friends who began studying a second, or third language at the Institute. They were able to study these at a level advanced enough to spend a summer in the country of that language, and returned with a newfound appreciation of a culture that was once foreign to them.

In a globalized society, it is more important now than ever to both be communicative in the dominant language common across global communities, as well as to preserve one's cultural identity by retaining or learning one's minority language. A bilingual education would prepare students for future professions, enrich their connection with their cultural heritage, and enhance their social experiences.

Implementing bilingual programs may be a challenge, but it is challenge worth pursuing.

Erika Trent is a member of the Class of 2015



OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Sarah Ritter, Editor in Chief Anne Cai, Managing Editor Ian M. Gorodisher, Executive Editor Deborah Chen, and Opinion Editor Jacob London.

Dissents are the signed opinions of editorial board members choosing to publish their disagreement with the editorial

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to *letters@tech.mit.edu*. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or

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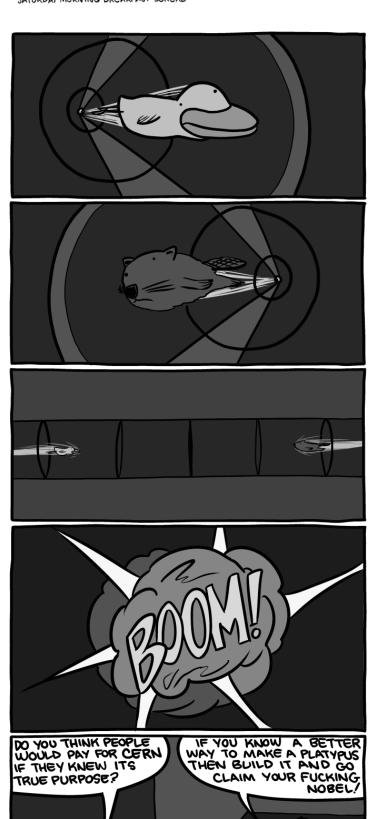
Guest columns are opinion articles submitted by members of the MIT or local community.

TO REACH US

The Tech's telephone number is (617) 253-1541. Email is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to <code>general@tech.mit.edu</code>, and it will be directed to the appropriate person. You can reach the editor in chief by emailing <code>eic@tech.mit.edu</code>. Please send press releases, requests for coverage, and information about errors that call for correction to <code>news@tech.mit.edu</code>. Letters to the editor should be sent to <code>letters@tech.mit.edu</code>. The Tech can be found on the World Wide Web at <code>http://tech.mit.edu</code>.

[3155]

BY ZACH WEINER



Sudoku

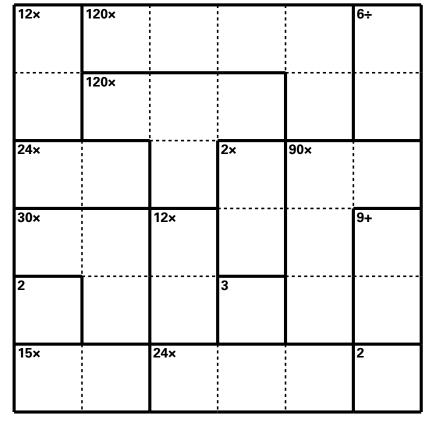
Solution, page 10

	9	7		8				4
		1		4	6			
		8						5
	6		7	3				9
	8	3				6	1	
7				1	9		8	
7 2						9		
			1	6		8		
8				9		5	2	

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 10



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

Saturday Stumper by Frank Longo

Solution, page 10

ACROSS

- 1940
- 11 Positively Mexican?
- 15 Unwelcome knocker
- 16 March exclamation opener 17 They're definitely not toys
- 18 They're tops 19 Composition of some
- sprays
- 20 Greenhouse annoyance
- 22 Better Breakfast Mo. 23 Educational series
- 26 Euro predecessor
- 28 Regard
- 29 Thought
- 31 Like some circuits
- 32 See 21 Down
- 33 Name traced back to the lliad
- 34 Part of many org. names 37 Aunt of Bart Simpson
- 39 Frat letters
- 40 Back again
- 42 Dangerous streamers
- 44 Hiss recipient
- 45 Racing vehicle

- 46 DVR brand
- 51 Composition of some
- sprays 53 __ Brum (car accessory)
- 54 River in a Best Picture title
- 56 Vermin
- 57 Pudding ingredient
- 59 Before the topic changes 62 Meager
- 63 Wedding planner's buy 64 Proprietor of Speedpass.ca
- 65 Mice avoid them

DOWN

- 1 Move shakily
- 2 Longtime Lauder spokesperson
- 3 Chilling
- 4 Hibernating creatures
- 5 Sparks
- 6 Wiener connector
- 7 Its members often pitch 8 "That's right!"
- 9 Turned up
- 10 His birthday is a California state holiday

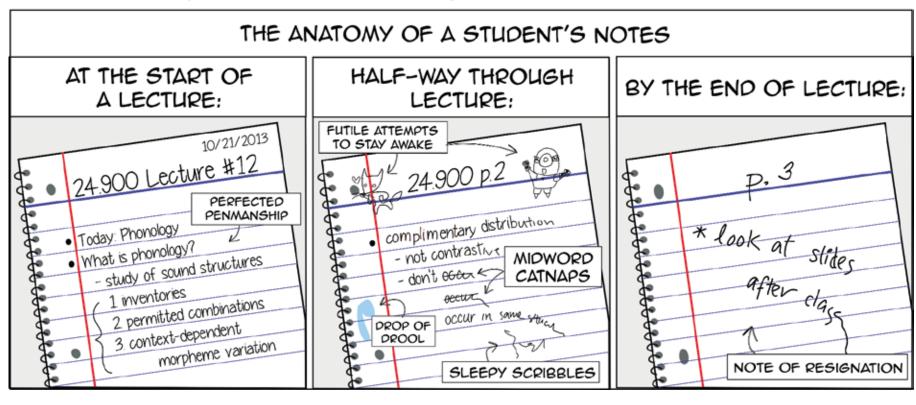
- 11 Common
- 12 Isle of Man's
- surroundings 13 It may have wings
- 14 Considerably
- 21 With 32 Across,
- pity party elicitor 24 Unlikely soap
- source 25 Tart jam flavor
- 27 Novices
- 30 Poker players look for them
- 32 Huddle specification 34 Item from the
- Pentagon
- 35 Since 36 Help for starting up
- 38 Prop preceder 41 Curling venue
- 43 Conversion accessory
- 46 Ready for another swabbing 47 Stock traded in some
- markets
- 16 15 18 19 20 21 23 25 28 29 31 33 32 34 | 35 | 36 40 42 44 45 46 |47 49 52 53 54 56 59 60 61 62 63 64 65
 - 48 Survey
 - 50 Camp sight
 - 52 Heading in a book of Liszt's
 - 55 Far from whopping
- 60 Chaps
- 61 Pretty quick
- 58 Astaire workplace, circa 1935

12 | 13 | 14

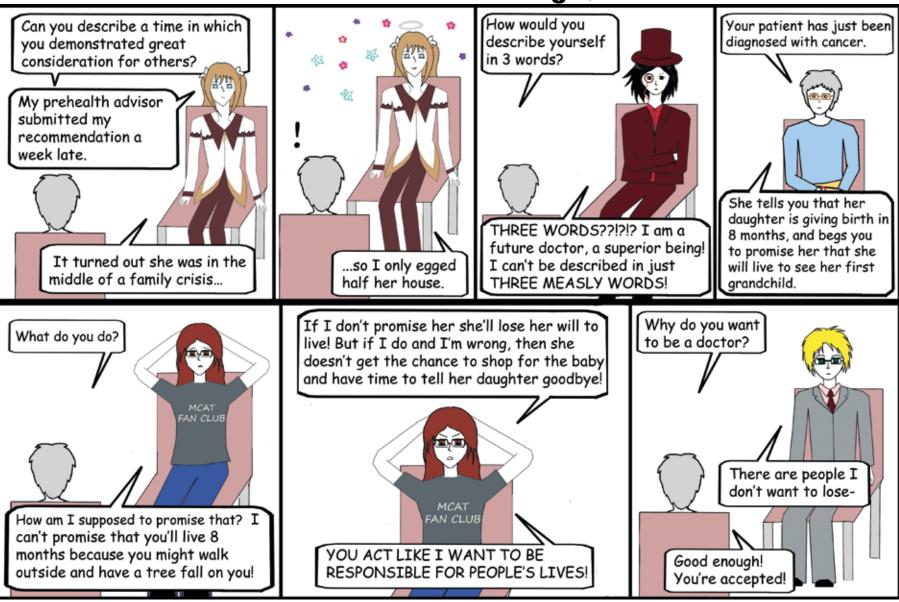
6 THE TECH
TUESDAY, OCTOBER 29, 2013

Q.E.D. (QUITE EASILY DONE)

BY ERIKA TRENT



Somewhere on the Search for Meaning by Letitia Li













by Jorge Cham

WWW.PHDCOMICS.COM

TUESDAY, OCTOBER 29, 2013 THE TECH 7

THE NATURALIST'S NOTEBOOK

Cities at your feet

A closer look at the world of ants

By Davie Rolnick

Ants are one of the underappreciated wonders that you can find in your own backyard. In many ways, they are like humans: They have complex societies, agriculture, and war, and are powerful enough to shape the environment around them. There are also a lot of them — about ten quadrillion in the world, making ants far more populous than all of mankind. Ants are deceptively diverse. Besides black, they come in vibrant colors, from red to green to glittering blue, and they vary in size so much that the smallest ant species could build its nest inside the head of the

City Life

The colony is the unit of ant society. Depending on the species, colonies can range from only a few dozen ants to millions. Within a colony, different jobs are performed by different castes of ants. Soldiers are large and powerful and focus on fighting. Workers make up the bulk of the colony and do the day-to-day tasks like gathering food and tending the young. There is generally a queen — or sometimes several, in large colonies. The job of the queen is to lay eggs, and she usually just sits and reproduces all day long, using sperm stored up from her youth. Her former partners are long dead. Soldiers, workers, and queens are all female, and the only purpose of male ants is to mate

When ants do need to mate, they do it on a grand scale. Male ants and young queens emerge from their colonies in great swarms. They have wings and fly around in a frenzy looking for partners. You may have seen this happening and not realized it. Whenever it seems like there are a lot of insects flying about, but none of them are biting you, it is probably the mating day of some species of ant. Even after waiting a year, all the colonies somehow manage to synchronize it, so that the orgy is sometimes done within an hour.

The home that an ant colony builds is

called the nest. Here in Massachusetts, you often find ant nests in sidewalks or under rocks. That is because the rocks and concrete help keep the nest warm on cold days. Archaeologists know to look for fossils on top of ant nests, because some ants cover their nests with rocks gathered from the surrounding land in order to collect solar radiation. Ants in the tropics have the opposite problem and generally nest underneath bark or in other places where they can keep cool.

Whenever it seems like there are a lot of insects flying about, but none of them are biting you, it is probably the mating day of some species of

Some ants go to great lengths to build the perfect nest. Weaver ants, for instance, make nests in trees. Dangling from one another, chains of workers pull leaves and branches into place, and then fasten them together using silk. Another species of ant (Camponotus femoratus) plants cactuses in its nest in order to make it sturdier. Yet another species has an alliance with a tree, in which the tree provides the ant food and shelter, while the ant stings all the trees' competitors to death. Because of this arrangement, there are large bare patches inside South American rainforests, where no plants grow - except for this one species of tree.

rely on livestock farming for their food. Their cows are small, defenseless insects called aphids, which sit on plants all day, drinking sugary sap and trying not to get eaten. Ant colonies collect groups of these aphids and protect them from predators. In exchange, the aphids secrete a concentrated sugary secretion called honeydew

(a bit like maple syrup), which the ants eat. The tie between farmers and cattle runs so deep that when a colony of ants moves to another nest, it carries the weak aphids along with it and installs them on another plant that they can use as pasture.

In South America, leafcutter ants carry out an even stranger form of agriculture. Every night, the colony goes out and defoliates an entire tree, chops up the leaves, and brings the pieces home. Like many ants, leafcutters nest underground in a network of subterranean chambers; a colony may excavate up to forty tons of earth. Inside the nest, different castes of successively smaller ants chop the pieces up into increasingly tiny fragments. The ants don't eat the leaves. Instead, the bits of leaf are fed to the filaments of a gigantic fungus that the ants keep in their nest. This fungus is food for the entire colony, which may contain millions of ants.

A disciplined army

Ants go to war all the time. They are really the only animals that fight to an extent comparable to humans. Consider those ants that you get in ant farms (Pogonomyrmex californicus, to be precise). In the wild, when these ants go out looking for food, they get into so many fights that 6 percent of them die every hour! Not surprisingly, therefore, they have a lot of weapons that they can use in battle. Ants evolved from wasps and still have the ability to sting. They also have powerful jaws, and some species can spray acid from their mouths. (All you chemists, "formic acid" actually means "ant acid.") Some carpenter ants in Malaysia even have the mobilizing glue and as deadly poison.

Ants are powerful creatures, which can an ant decoy growing out of its back, in an effort to scare away predators. In the Amazon, army ants sweep over the ground in giant swarms, methodically killing everything from grasshoppers to frogs. Birds, known as antbirds, follow the army ants, picking off other insects that are driven out of hiding. Butterflies, known as antbutterflies, follow the birds, feeding from the poop that they leave behind. Thus a whole community of organisms is centered upon the army ant.

There are many interesting ants that don't share the fame of the army ant. The trapjaw ant, for instance, has springloaded jaws that bend open 180 degrees, like a bear trap, and snap shut if touched. (This is actually the fastest action of any animal on Earth.) Instead of bears, the ant catches tiny snow fleas, which can jump so fast that it takes superpowers to catch them. Another fascinating species is the African honeypot ant, which stores food in the form of a sweet liquid like honey. This honey is kept within the hugely swollen bodies of some of the ants, whose sole function is to be living jars of food. Apparently, these honey-filled ants are delicious and are often eaten by people in Africa.

Some carpenter ants in Malaysia even have the ability to explode.

Whether as fighters, farmers, or food, ants offer fascination and even inspiration. Their proverbial diligence has given birth to many metaphors and fables. In Greek mythology, ants are among the only creatures that were turned into men, rather than the other way around. Achilles' followers, the fierce Myrmidons, take their name from the Greek word for "ant", and supposedly sprang from ants at the command of Zeus. Thoreau writes, after studying a battle between rival colonies, "I was myself excited ... as if they had been men." We humans may think the Earth is ours, but the teeming cities at our feet remind us that it is also a world of ants.

ability to explode, killing themselves in Down on the farm the process, but showering the enemy In Massachusetts, many species of ants with chemicals that function both as im-

shape entire ecosystems because they work together in large numbers. Most species are predatory and the terror of the insect world. Ants are so formidable that one harmless insect in South America has

EVENTS OCT. 29 - NOV. 04

(4:00 p.m. – 5:00 p.m.) Nanotechnology from Laboratory to Space, with speaker Brent Segal of Lockheed Martin (refreshments at 3:45 p.m.) — 34-101

WEDNESDAY

TUESDAY

(6:00 p.m. - 7:30 p.m.) Soap Box: The Science of Remembering (and Forgetting) with speaker John Gabrieli, sponsored by the MIT Museum - N51

THURSDAY

(2:00 p.m. - 3:00 p.m.) Essay writing for graduate & professional school applications, sponsored by MIT Global Education & Career Development — 37-212

FRIDAY

(8:00 p.m. - 10:30 p.m.) The MIT Shakespeare Ensemble presents Hamlet (tickets \$12 online) — W20-202

(8:00 p.m. - 10:00 p.m.) MIT Affiliated Artist Concert: Heng Jin Park, piano; Gabriela Diaz, violin; and Jing Li, cello, sponsored by MIT Music and Theater Arts 14W-111 (Killian Hall)

SATURDAY

(7:00 p.m. - 9:00 p.m.) Dean Obeidallah comedy show (\$5 MIT student, \$10 non-MIT student, \$15 non-student), sponsored by Muslim Students' Association—6-120

SUNDAY

(6:00 a.m. - 7:30 a.m.) Solar eclipse viewing (if weather permits), sponsored by observe@MIT and EAPS — 37

MONDAY

(4:00 p.m. – 5:30 p.m.) "Do People Want to Know Their Lifespan?" with speaker Emily Oster, sponsored by the MIT Undergraduate Economics Association and the Economics department — E51-335

(5:30 p.m. - 7:00 p.m.) The High-Frequency Trading Arms Race: Frequent Batch Auctions as a Market Design Response, with speaker Eric Budish, sponsored by the Applied Theory Workshop — E19-758

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Grimson to play major role in capital campaign

Grimson, from Page 1

faculty and their interest within the capital campaign that we're about to launch." He added, "My goals are the Institute's goals; to make sure that I support the president as we make sure that the faculty and student perspective are well intertwined with the capital campaign."

LEF-ARCADE OCO Graduate

Grimson and Reif discussed the change before the president asked Grimson to take up the job. "The capital campaign is incredibly important to the wellbeing of the Institute for the next many years, and while it may be challenging, I was happy to agree to it and am excited to do it," said Grimson.

Reif's announcement stated that

Grimson had unique qualifications for the new position. Grimson saw the entirety of his time at MIT as important preparation for his new role. "I think of this as an evolution; as department head I spent a lot of time talking with alumni around the world, talking with donors, raising funds, and I did the same thing as chancellor," said Grimson, "that

experience is just going to naturally flow into the new position."

Grimson also cited the connections he made as Chancellor as important to his new role. "I've had the chance to meet alumni around the world, and that gives me a base on which to build as I think of how MIT's message gets out to our potential donors. We need to persuade them that supporting MIT is one of the best things we can do, not just for this generation of students, but for students and faculty to come."

Grimson also reflected on his primary achievements during his time as Chancellor, which include strengthening the range of student support available at the Institute with various projects. "There was no one thing that was a magic bullet, it was a set of things that helped make this a more supportive place," said Grimson. He also pointed out his involvement in the rollout and continued evolution of online digital tools and massive open online courses at MIT. Along with Course VI professor John V. Guttag, he helped to create 6.00x, an online analog of 6.00, currently in its third offering.

Nevertheless, Grimson suggested his tenure as Chancellor was not necessarily defined by the most prominent projects. "The Chancellor's job isn't about big initiatives, necessarily. It's about just making sure things are done that improve the experience for students at the Institute. Sometimes those are small things, and sometimes those are large things. I don't think a Chancellor has to come in and dramatically change the way we do things."

Fundraising is usually led by the Institute's president. Susan J. Hockfield, who preceded Reif, raised almost \$3 billion during her presidency but cited the upcoming capital campaign as a reason for the timing of her departure, according to the MIT News Office. According to the recent press release, Grimson's new role will require a significant of dedicated travel.

Grimson said his focus is now completely on the new campaign. "I'm looking at the campaign, that's my biggest focus," said Grimson, "this is a multi-year commitment and for now there's nothing beyond the campaign in my mind."





TUESDAY, OCTOBER 29, 2013 THE TECH 9

Briefs, from Page 1

Police suspected that the vandals were fraternity brothers, WCVB reported.

Volunteers later restored the monument, which was tipped over just days before the anniversary of the death of one of the slain officers, according to The Hooksett

As of press time, Preve has not responded to The Tech's requests for information.

Professors named deans for innovation

President L. Rafael Reif named professors Vladimir Bulovic and Fiona Murray associate deans for innovation on Oct. 17.

In their new positions, Murray and Bulovic will lead the Innovation Initiative, plans for which were first announced by Reif at a conference in September. The initiative will support engineering and policy research at MIT to boost innovation in manufacturing and help industry firms bring new ideas to the market.

The Innovation Initiative is a part of Reif's vision for more Institute-wide efforts in the vein of the MIT Energy Initiative, according to Martin A. Schmidt, who will be acting provost beginning Friday.

Murray is an expert on entrepreneurship and is the faculty director of MIT's Martin Trust Center, which helps students build

Bulovic is known for his contributions to nanotechnology and was the director of MIT's Microsystems Technology Laboratories (MTL) before taking on his new role.

MIT announced Monday that electrical engineering professor Jesús del Alamo will succeed Bulovic at MTL.

Simultaneous hackathons to be held in memory of **Aaron Swartz**

Hackers in Amsterdam, Berlin, San Francisco, Chicago, Boston, New York, Buenos Aires, and Seattle will churn out code the weekend of Nov. 8-10 at synchronized events in memory of Aaron Swartz, the Internet activist who hanged himself in January, according to aaronswartzhackathon.org.

Swartz, 26, faced felony charges after downloading millions of journal articles from JSTOR to a laptop hooked up to an MIT network switch in a Building 16 closet.

The Boston hackathon will be held at the MIT Media Lab.

This is the second such round of hackathons since January.

—Leon Lin

Survey, from Page 1

fessional degree program, including about 70 percent of the youngest category and about 80 percent of the oldest category. Of those that enrolled in such a program, about 53 percent enrolled immediately after college and 88 percent enrolled within three years of graduating MIT. About 71 percent of alumni said that MIT prepared them "very well" for graduate or professional school, and 98 percent said MIT prepared them "adequately" or better.

Most alumni work, with 87 percent reporting that they are employed in some capacity. This includes 81 percent of the youngest cohort, 88 percent of the middle cohort, and 91 percent of the oldest cohort. Those looking for work account for about 4 percent of alumni; this number is fairly constant across all the three groups. Of those working, about 73 percent work in a forprofit business, 13 percent work for a government or public institution, and 14 percent work for a nonprofit. About 9 percent are self-employed. The most popular field is "computer science/ technology," with 17 percent of alumni in that field. Other popular fields include engineering, financial services, and education. About 6 percent of the youngest cohort and 30 percent of the oldest cohort report being an executive in their company. Of those responding, 49 percent report that MIT prepared them "very well" for their career, and 97 percent say that MIT prepared them "adequately" or better.

Most alumni work, with 87 percent reporting that they are employed.

Given the option to rate MIT's success at preparing them for certain tasks, alumni said the Institute did the best job at preparing students to think analytically and logically, think critically, and learn new skills independently. The alumni rated MIT worst on preparing students to read or speak foreign languages, maintain a healthy lifestyle, and place current problems in historical and cultural context.

Of the alumni who responded, 92 percent reported being "Very Satisfied" or "Generally Satisfied" with their education as an MIT undergraduate.

—William Navarre

Cambridge City Council candidates

- —Dennis Benzan
- -Dennis Carlone
- —Leland Cheung MBA '12
- —Janneke House
- —Craig A. Kelley
- —James Lee —Logan E. Leslie
- —David P. Maher
- -Nadeem Mazen '06
- -Marc C. McGovern
- -Gary W. Mello -Mushtaque Mirza
- —Gregg J. Moree
- —Ron Peden
- -Lesley Phillips
- —Kenneth E. Reeves
- -Sam Seidel
- —E. Denise Simmons
- —Jefferson Smith
- —Timothy J. Toomey, Jr. -Minka Y. vanBeuzekom
- —Luis Vasquez
- —Kristen von Hoffmann —James M. Williamson
- -Elie Yarden

MIT School of Science

Marc A. Kastner, Dean

BIOQUIUM



Tom Leighton
CEO & Co-Founder of Akamai Technologies Professor of Applied Mathematics at MIT



Wednesday, October 30, 2013

4:00 p.m. Reception Stata Center, Lobby 32-123

4:30 p.m. Lecture and Q&A Stata Center, Room 32-123

Free and Open to the Public

The development of Akamai Technologies is a classic MIT story. Motivated by curiosity, Professor Tom Leighton's search for fundamental knowledge led to the creation of a company that would soon revolutionize the internet. As one of the world's preeminent authorities on algorithms for network applications, Leighton's work behind establishing Akamai was based on recognizing that a solution to freeing up web congestion could be found in applied mathematics and algorithms.

The research that spawned Akamai began in MIT's Math Department and Lab for Computer Science in 1995. Today, Akamai's global platform of thousands of specially-equipped servers helps the Internet withstand the crush of daily requests for rich, dynamic content. In this colloquium, Leighton will talk about the founding of the company and the challenge of being the leading cloud platform for helping enterprises provide secure, high-performing user experiences on any device, anywhere.

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Rebate checks are available to be picked up from Wednesday, October 16, 2013 through Friday, November 1, 2013 at the Member Services Office on the 4th floor of the Coop Bookstore in Harvard Square (Monday-Friday, 9:00 am-5:00 pm).

Rebate checks that are not picked up during this period will be mailed to the address designated by members in our records beginning November 4, 2013. To avoid misdirection of your check, go to thecoop.com to verify or update your mailing address no later than Thursday, October 31, 2013.



http://www.thecoop.com

Police log

The following incidents were reported to the MIT Police.

Oct. 11, 11:35 p.m., PLP (450 Beacon St). Report of people on the roof of a residential building.

Oct. 12, 11:53 a.m., Building 2 (182 Memorial Dr). Report of man on floor in a closet, subject arrested.

Oct. 12, 5:24 p.m., Westgate (540 Memorial Dr). A bike was stolen from the bike rack.

Oct. 13, 3:33 a.m., DU (526 Beacon St). A person refused to leave the fraternity house and broke a window. Two police cars were dispatched.

Oct. 13, 1:06 p.m., Johnson Athletics Center (120 Vassar St). Request for an officer to assist with behavior issues between a parent and child.

Oct. 14, 2:26 p.m., Student Center (84 Mass Ave). Report of an assault, subject apprehended and arrested.

Oct. 15, 3:39 p.m., Building 68 (31 Ames St). Report of a stolen laptop computer.

Oct. 15, 11:20 p.m., Ashdown House (235 Albany St). A man entered the building and began asking people for money. Police responded and arrested him for resisting arrest and trespassing.

Oct. 16, 7:48 a.m., Building 7 (77 Mass Ave). Officer issues trespass warning to suspicious person in lobby.

Oct. 16, 1:02 p.m., Building 13 (105 Mass Ave). Report of a stolen bike off the bike rack in front of Building 13.

Oct. 16, 3:30 p.m., Building 76 (476 Main St). Report of a threatening message.

Oct. 17, 10:18 a.m., Building 33 (127 Mass Ave). Report of a male who entered a room and removed an envelope from a desk. He discarded the envelope as he was leaving the office.

Solution to Crossword

	nom page 5													
W	Н	Α	T	S	U	P	D	0	C		S	I	S	I
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Solution to Techdoku

from page !

3	1	5	4	2	6
4	2	6	5	3	1
6	4	2	1	5	3
1	5	3	2	6	4
2	6	4	3	1	5
5	3	1	6	4	2
				•	

SMBC, from Page 5



Solution to Sudoku

from page 5

6	9	7	5	8	1	2	3	4
3			2			7		
4	2	8	9	7	3	1	6	5
1	6	2	7	3	8	4	5	9
9	8	3	4	2	5	6	1	7
						3		
2	3	6	8	5	4	9	7	1
5	7	9	1	6	2	8	4	3
8	1	4	3	9	7	5	2	6

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Tuesday, October 29, 2013 THE TECH 11

Healthcare.gov puts agency and leader in hot seat

Marilyn Tavenner, administrator of CMS, to be grilled on launch of troubled health site

Healthcare, from Page 1

R-Utah, who voted to confirm Tavenner. Referring to Tavenner's agency and to the Health and Human Services Department, he added, "Was it CMS? Was it HHS? Was it the White House? That it's this hard to unravel is unacceptable."

While the Medicare and Medicaid agency has major responsibility for implementing the president's health care overhaul, there have been hints that Tavenner was kept out of the loop on some critical decisions.

In July, after the Obama administration announced it was delaying the so-called employer mandate — a requirement that companies with more than 50 employees contribute to the cost of insurance or pay a penalty -Tavenner told lawmakers that she had been on vacation when the decision was announced and had no part in it.

There have been hints that Tavenner was kept out of the loop on some critical decisions.

"I was not consulted," she said. A onetime nurse and hospital executive, Tavenner came to Washington in 2010 to serve as deputy to Dr. Donald M. Berwick, President Barack Obama's first, and controversial, pick to run the sprawling agency. After Berwick, who became a symbol of Republican discontent about Obama's health policies, was unable to win

Senate confirmation, Tavenner took over in an acting capacity in December 2011. Earlier this year, she became the agency's first Senate-confirmed administrator since

been fending off questions about whether she foresaw problems and whether she notified Sebelius. On Monday, asked to describe the chain of command for work on the Affordable Care Act, a spokes-

Tavenner may have to answer for the work of her subordinates: many decisions on the project were made by Michelle Snyder, the agency's chief operating officer, and by Henry Chao, the head of the technology team.

an interview Monday.

Republicans said they expected to press Tavenner on a range of issues, including how many people have signed up for insurance through the online exchanges and how hands-on she was in monitoring the development of the website and managing the various federal contractors on the project.

Rep. Dave Camp, R-Mich., the chairman of the Ways and Means Committee, said through a spokeswoman that he viewed Tavenner as "a serious witness" who would "shed light on the systemic failures that led up to the rollout."

But Democrats expect Republicans to use Tavenner's testimony mostly to lay the groundwork for tougher treatment of Sebelius, who some Republicans have said should resign.

"Clearly, the launch has had some substantial problems," said Rep. Sander M. Levin of Michigan, the senior Democrat on the committee, "but I think the basic difference here is Democrats want to make it work and Republicans

In recent days, press officers for Tavenner's agency have

Tavenner was not available for woman, Julie Bataille, said the agency took responsibility. "Our administrator has been in charge of our overall ACA implementation effort," she said.

Tavenner may have to answer

for the work of her subordinates: many decisions on the project were made by Michelle Snyder, the agency's chief operating officer, and by Henry Chao, the head of the technology team. Contractors have said it was Chao who gave the lastminute order to require users to create accounts before they could shop for plans, a decision that contributed to a huge bottleneck before once the website went live.

Although it might seem there is little in Tavenner's background that would prepare her to oversee the daunting task of building a website to serve millions of uninsured consumers, she does have considerable experience running complex organizations. This has, at least in the past, endeared her to

Republicans like Cantor.

'She approaches problems of health care from the patients' perspective," Cantor told senators at Tavenner's confirmation hearing,

Tavenner does have considerable experience running complex organizations.

referring to her history as a nurse. "And given her long experience in the private sector, I have complete faith that she is an individual that will be able to take on the challenges that we face on behalf of the constituents that we represent."

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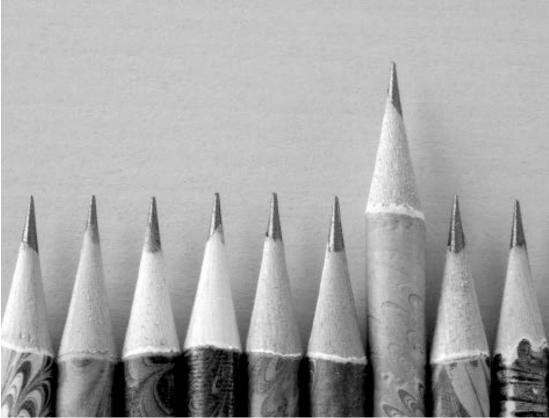
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Spurs expected to repeat as Southwest Champs

Rockets to come in second after acquiring Dwight Howard, Mavs fall to last place

By Nick Lopez

NBA Southwest Division

1. San Antonio Spurs

After falling to the Miami Heat in the 2013 NBA Finals, the San Antonio Spurs enter this upcoming season with much of the same team. Stalwarts Tim Duncan, Tony

Parker, and Manu Ginobili all return to try and win yet another title



before their seemingly endless window of opportunity finally closes.

Duncan, at age 37, is still arguably the best PF in the NBA and should have another solid season this year as he has shown no signs of slowing down. Parker had one of his best seasons last year, averaging 20 ppg and 7.6 apg. He continues to demonstrate that he has the star power to lead this Spurs team to victory even in Duncan's slowly declining production. Ginobili had a very rough post season in which many wondered what all he had left in the tank. This year, with a new contract, Ginobili will set out to prove that he can still play basketball at a star level. The last couple of seasons, he has been plagued with injuries, so look for this season to be no different.

Coach Gregg Popovich has been masterful in his management of Duncan and Ginobili, so no matter Manu's injury situation, know that Pop will make sure he is at his healthiest come playoff time. Popovich is the true reason for the Spurs great success. He runs a flawless system in which each and every player is held responsible for his actions, and manages minutes so that no single player is too fatigued come season's end. The results are obvious: the Spurs have been the single most dominant team this decade and should continue to dominate this season as well.

2. Houston Rockets

The Houston Rockets easily had the most exciting offseason with the signing of superstar

Dwight Paired with All-NBA



Harden, the Rockets will have one of the

NBA. Howard had a disappointing season last year with the Los Angeles Lakers, a season in which he was still suffering the effects of an offseason back surgery and yet still led the league in rebounding at 12.4 rpg. This season, Howard says he is completely recovered from back surgery and should return to the All-NBA First Team form that he displayed with his numerous years in Orlando.

Sadly, the acquisition of Howard has left C Omer Asik in a rough spot. Last season, as the starting center for the Rockets, Asik broke out to average 10 ppg and 11.7 rpg, good for third in the league. However now with Howard coming in, Asik will be moved to the bench, a move that Asik has already stated will not be welcomed by him. It will be interesting to see how this situation is resolved; will Asik accept the role off the bench or will the Rockets be forced to move him to another team?

It will also be interesting to watch how PG Jeremy Lin plays this season. Last season he started out strong, but steadily lost touches and minutes as the season went along, due in part to Harden's emergence as a dribble-heavy superstar and also due to the emergence of backup PG Patrick Beverly. Beverly will definitely command more minutes this season, so is this the year that Lin gets shipped out as well?

3. Memphis Grizzlies

In an improving division, the Memphis Grizzles did not make

any substantial improvements to their squad this offseason. A decline might be coming soon if changes are not made. Last year the Grizzles solved their inside-outside hybrid offensive mess by sending SF Rudy



Gay to Toronto, setting their offense to now be completely post-centric. Bigmen Marc Gasol and Zach Randolph form the most formidable post duo in the league. They play rough, they play well, and they can each score from a wide variety of moves. Along with SG Tony Allen, these three form the backbone to the best defense in the league, which allowed only 89.3 ppg last season, a league best. The rest of the starting five is solid with SF Tayshaun Prince and PG Mike Conley, but the bench leaves a bit to be desired, especially in a division that is quickly becoming one of the best in the league. Three players who have the potential to make an impact are G Jerryd Bayless, F Ed Davis, and F Quincy Pondexter. Bayless is an explosive scorer who struggled with decision-making early in his career, yet is now maturing into a solid backup point guard. Davis, initially drafted by Toronto to replace PF Chris Bosh when he left for Miami, hasn't lived up to such high expectations yet still displays a nose for rebounding and a knack for finishing down low efficiently. Pondexter is a shooter who can get hot in a hurry. His shooting percentages have steadily risen each season since he came into the league, so there is no reason to believe that trend won't continue. How well these three players have improved this offseason will determine how strong of a bench Memphis has, and a strong bench can only mean good things to a team with a as solid a starting five as the Memphis Grizzles.

4. New Orleans Pelicans

The New Orleans Pelicans are the team that I am personally most excited to watch this season. This offseason signed swing-

man Tyreke Evans from Sacramento and also traded away draft pick Nerlens Noel to the Philadelphia 76ers for All-Star PG Irue Holiday.

Evans, although he is easily a starting level talent, will most likely come off the bench in a 6th man role to provide a spark for the Pelicans' second unit. Against other teams secondaries, look for Evans to put up very efficient scoring numbers as his sole purpose will be to punish lesser talented players, something Evans does very

Holiday comes in as the starter and will run the offense. He will have less of a scoring role than he did in Philadelphia now that he has prolific scorer Eric Gordon with him in the backcourt and young star Anthony Davis in the frontcourt.

Many have Davis pegged for a breakout season, and I must agree. Last season as a rookie, Davis averaged 13 and 8 along with 1.8 bpg in only 28 mpg. Now playing around 35 minutes each game, look for those stats to reach around 18 and 10 with 2+ blocks a game.

Gordon, the last few seasons, has been a major injury concern, but he came back at the end of last season to play 42 games and average 17ppg. When healthy, Gordon is one of the top shooting guards in the league. He can score, he can defend, he can hit the three and he can drive it strong to the bucket, yet so many times he is inactive due to injury. This preseason he has looked healthy, so expect him to be good to go for the start of the season, yet I still expect only around 60 games from him this year simply due to his history with injuries.

This Pelicans team improved a lot this offseason, maybe the most of any team, so look for them to be suddenly competitive in the very strong Western Conference.

5. Dallas Mavericks

The Dallas Mavericks simply refuse to go into rebuilding mode. This season,

instead of dumping some of their multiple aging veterans for young players, the Mavs signed more aging veteran players, apparently hoping to squeeze every ounce of talent out

of these ancient men to one more championship before Dirk finally retires. Still here are veterans Nowitzki, Vince Carter, and Shawn Marion, each one far from the players they once were.

Nowitzki still has a little bit to bring to the table, since it's well known that jump shooters age gracefully. Dirk took a while to get going last season after he came back from injury, which brought up many questions about his future as a team centerpiece. This season, Dirk wants to prove that he can still lead a team to success, and with Mark Cuban going out and signing talent in a win-now mindset, it's obvious that Cuban still believes that Dirk can be the centerpiece of a championship team.

New this year are guards Jose Calderon, Monta Ellis, Devon Harris and center Samuel Dalembert. Calderon is a passfirst point guard with an excellent shooting touch who will be an immediate upgrade over Darren Collison, who struggled mightily last season. Harris and Dalembert are both veterans who have seen better days, and will be looking to use this season to show the league that they are not washed up yet. Ellis is a prolific scorer brought in to replace OJ Mayo, who signed with the Bucks this offseason. The Mavs hope to pair Ellis' outside slashing ability with Dirk's still unstoppable post game along with Carter and Calderon around the perimeter to hit some outside jumpers.

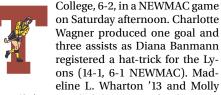
Five years ago, this roster would win the Championship, but with the league steadily transitioning to a higher paced game, a younger man's game, more age is not the best recipe for success. Despite Cuban's high hopes, this team will not make the playoffs for the second straight year.

MIT falls to nationally ranked Mount Holyoke

MIT playing final game of season Saturday

By Mindy Brauer

Facing its second straight nationallyranked opponent this week, the No. 19 MIT field hockey team fell to No. 18 Mount Holyoke



K. Duffy '13 provided the scoring for the Engineers (12-4, 5-2 NEWMAC).

MIT put the pressure on early and saw results as Wharton converted a penalty stroke after 2:15 elapsed. Mount Holyoke responded with Sarah LaQuerre tallying the equalizer four minutes later. Following a penalty corner, goalie Evie S. Kyritsis '16 turned away shots by Kirsten Kilburn and Banmann before La-Querre knocked in the rebound.

The Lyons gained some breathing room with markers in the 11th and 13th minutes, resulting in a 3-1 lead. After inserting the ball on a penalty corner, Wagner tipped in a feed from Kilburn at the near post. Wagner then earned the first of three straight assists as she sent a cross from the near side to Banmann at the far

Coming out of their own timeout after the

goal, the Engineers generated some momentum on the offensive end as they put two shots and earned a pair of penalty corne However, the visitors' attack responded with a Kilburn blast at the top of the arc in the 28th minute and then capped the first-half scoring with 3:13 to go courtesy of a Banmann strike from the top of the circle on a penalty corner.

Mount Holyoke continued to push in the second stanza, registering five penalty corners and two shots on goal in the first six minutes. MIT responded by controlling the action during the next eight minutes, eventually ending its scoring drought on Duffy's redirection that was set up by Erin B. Kenney '13 in the 50th minute to make the score 5-2.

The Engineers kept the Lyons' defense active, but an interception by Banmann provided the final marker with 8:27 left to play. Deep in MIT's defensive end, Banmann picked off a pass and tapped it to LaQuerre who sent it back to her to complete the hat-trick.

Kyritsis totaled eight saves in the first half while Paige V. Kennedy '16 closed out the game for the Cardinal and Gray with two stops. For the Lyons, Liz DiCesare collected eight saves.

MIT will wrap up the regular season on Saturday, Nov. 2 with a home game against NEWMAC foe Babson College. Mount Holyoke returns to action on Tuesday, Oct. 29 when it hosts Westfield State University in a non-con-

UPCOMING HOME EVENTS

Tuesday, October 29

Women's Volleyball vs. Emerson College

7 p.m., Rockwell Cage

Wednesday, October 30

Men's Soccer vs. Emmanuel College

7 p.m., Steinbrenner Stadium

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